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 Communications Magazine, IEEE  
 Volume 30, Issue 9, Sept. 1992 Page(s):50 - 53 vol.2  
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[AbstractPlus](#) | Full Text: [PDF](#)(372 KB) IEEE JNL
- ☐ 2. **Dynamic neural control for a plasma etch process**  
 Card, J.P.; Sniderman, D.L.; Klimasauskas, C.;  
 Neural Networks, IEEE Transactions on  
 Volume 8, Issue 4, July 1997 Page(s):883 - 901  
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[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(404 KB) IEEE JNL
- ☐ 3. **The use of back propagation neural networks to identify mediator-specific waveforms**  
 Rayburn, D.B.; Klimasauskas, C.C.; Januszkiewicz, A.J.; Lee, J.M.; Ripple, G.I  
 Neural Networks, 1990., 1990 IJCNN International Joint Conference on  
 17-21 June 1990 Page(s):105 - 110 vol.2  
 Digital Object Identifier 10.1109/IJCNN.1990.137702  
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- ☐ 4. **A method for noise filtering with feed-forward neural networks: Analysis with low-pass and optimal filtering**  
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C. Klimasauskas

April 1989 **ACM SIGMIS Database**, Volume 20 Issue 1Full text available: [pdf\(278.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Neural networks are an innovative approach to information processing. Their characteristics lend themselves to directed analysis of the contents of computer data-bases. Potential payoffs from this include increased sales, decreased risk, and improved profitability. This presentation includes a brief look at the technology with an emphasis on providing a basic understanding of its characteristics and how they can be applied.

### 2 [Documentation: Documents, concepts and neural networks](#)

Jennifer Farkas

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**Full text available: [pdf\(533.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we investigate the relevance of neural networks to the problem of document classification. We show that textual documents can be represented numerically in a semantically meaningful way, so that the back-propagation learning algorithm can be used to build a document classifying neural network. We show that the network can be taught to classify natural language text according to predefined specifications. The convergence properties of the prototype *NeuroZ* described in this pa ...

### 3 [Automating judgmental decisions using neural networks: a model for processing business loan applications](#)

Rajeshwar Prasad Srivastava

April 1992 **Proceedings of the 1992 ACM annual conference on Communications**Full text available: [pdf\(522.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents a neural network model that simulates a business loan officer. The network is trained by showing financial ratios, past credit ratings, and loan records of a mixed sample of defaulted and non-defaulted companies. Once it is trained, it recommends to grant or deny a loan. The model uses human judgment of an expert as well as mathematical analysis of financial ratios. It includes into consideration the relative importance of different inputs, and the degree of belief in hu ...

### 4 [Book review: Neural Networks for Pattern Recognition By Christopher M. Bishop](#)

(Clarendon Press, 1995)

H. Van Dyke Parunak

June 1998 **ACM SIGART Bulletin**, Volume 9 Issue 1

Full text available:  [pdf\(385.24 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Technical textbooks tend to be encyclopedic omnibus volumes, since the market rewards authors whose books can be used by teachers in many different classes. Pedagogically, this tendency is unfortunate, since it tends to homogenize the unique approaches and presentations that make great teachers truly effective. Bishop's textbook on neural nets is a welcome exception to the rule. It specifically limits its focus to feed-forward nets with explicit training. Much important work has been done in dom ...

5 Book review: Fuzzy Engineering by Bart Kosko (Prentice Hall, 1997)

Peter Raeth

June 1998 **ACM SIGART Bulletin**, Volume 9 Issue 1

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Practical Application": That should be the goal of all theory and technology development. This review offers opinions written from that perspective. The review started with the question, "Can this book be used as a guide to implementing a new technology by someone with related knowledge?" Generally, the reader will find a very useful book with application insights and extensions to the author's previous developments. Each chapter gives concept, theory, and application. However, except for expert ...

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